

WHAT IS CLAIMED IS:

1 An isolated nucleic acid construct comprising a polynucleotide sequence that:

5 1) is at least 50% identical to a polynucleotide selected from the group comprising SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, and SEQ ID NO:17; or

2) encodes a polypeptide selected from the group comprising SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, and SEQ ID NO:18.

10 2. The construct of claim 1, wherein the polynucleotide is from a rice plant.

3. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:1.

15 4. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:3.

5. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:5.

6. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:7.

20 7. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:9.

8. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:11.

25 9. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:13.

10. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:15.

11. The construct of claim 1, wherein the polynucleotide is at least 50% identical to SEQ ID NO:17.

12. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:1.

13. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:3.

14. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:5.

15. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:7.

16. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:9.

17. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:11.

18. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:13.

19. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:15.

20. The construct of claim 1, wherein the polynucleotide is SEQ ID NO:17.

21. The construct of claim 1, wherein the polynucleotide encodes SEQ ID:2.

22. The construct of claim 1, wherein the polynucleotide encodes SEQ ID:4.

23. The construct of claim 1, wherein the polynucleotide encodes SEQ ID:6.

NO
ID:8.
^

24. The construct of claim 1, wherein the polynucleotide encodes SEQ

NO
ID:10.
^

25. The construct of claim 1, wherein the polynucleotide encodes SEQ

NO
ID:12.
^

26. The construct of claim 1, wherein the polynucleotide encodes SEQ

NO
ID:14.
^

27. The construct of claim 1, wherein the polynucleotide encodes SEQ

NO
ID:16.
^

28. The construct of claim 1, wherein the polynucleotide encodes SEQ

NO
ID:18.
^

29. The construct of claim 1, wherein the polynucleotide encodes SEQ

30. The construct of claim 1, further comprising a promoter operably linked to the polynucleotide sequence.

31. A transgenic plant comprising a recombinant expression cassette comprising a plant promoter operably linked to a polynucleotide sequence that encodes a polypeptide wherein the polynucleotide:

1) is at least 50% identical to a polynucleotide selected from the group comprising SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, and SEQ ID NO:17; or

2) encodes a polypeptide selected from the group comprising SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, and SEQ ID NO:18.

32. The transgenic plant of claim 31, wherein the plant is rice.

33. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:1.

34. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:3.

35. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:5.

5 36. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:7.

37. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:9.

10 38. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:11.

39. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:13.

40. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:15.

15 41. The transgenic plant of claim 31, wherein the polynucleotide is at least 50% identical to SEQ ID NO:17.

42. The transgenic plant of claim 31, wherein the polynucleotide is SEQ ID NO:1.

43. The transgenic plant of claim 31, wherein the polynucleotide is SEQ ID NO:3.

44. The transgenic plant of claim 31, wherein the polynucleotide is SEQ ID NO:5.

45. The transgenic plant of claim 31, wherein the polynucleotide is SEQ ID NO:7.

25 46. The transgenic plant of claim 31, wherein the polynucleotide is SEQ ID NO:9.

47. The transgenic plant of claim 31, wherein the polynucleotide is
SEQ ID NO:11.

48. The transgenic plant of claim 31, wherein the polynucleotide is
SEQ ID NO:13.

5 49. The transgenic plant of claim 31, wherein the polynucleotide is
SEQ ID NO:15.

50. The transgenic plant of claim 31, wherein the polynucleotide is
SEQ ID NO:17.

10 51. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:2.

52. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:4.

53. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:6.

15 54. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:8.

55. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:10.

20 56. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:12.

57. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:14.

58. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:16.

25 59. The transgenic plant of claim 31, wherein the polynucleotide
encodes SEQ ID:18.

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60. A method of enhancing resistance to pathogens in a plant, the method comprising

1) introducing into the plant a recombinant expression cassette comprising a plant promoter operably linked to a polynucleotide sequence, wherein the polynucleotide sequence:

a) is at least 50% identical to a polynucleotide selected from the group comprising SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, and SEQ ID NO:17; or

b) encodes a polypeptide selected from the group comprising SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, and SEQ ID NO:18; and

2) selecting a plant with enhanced resistance.

61. The method of claim 60, wherein the polypeptide comprises SEQ ID NO:2.

62. The method of claim 60, wherein the polypeptide comprises SEQ ID NO:4.

63. The method of claim 60, wherein the polypeptide comprises SEQ ID NO:6.

64. The method of claim 60, wherein the polypeptide comprises SEQ ID NO:8.

65. The method of claim 60, wherein the polypeptide comprises SEQ ID NO:10.

66. The method of claim 60, wherein the polypeptide comprises SEQ ID NO:12.

67. The method of claim 60, wherein the polypeptide comprises SEQ ID NO:14.

ID NO:16.

68. The method of claim 60, wherein the polypeptide comprises SEQ

ID NO:18.

69. The method of claim 60, wherein the polypeptide comprises SEQ

acc
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68. The method of claim 60, wherein the polypeptide comprises SEQ